

**Notice of Allowability**

Application No.

10/052,128

Examiner

Jamal A. Fox

Applicant(s)

CRUMP, RICHARD

Art Unit

2664

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/17/2002.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 11/25/2002
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

***Allowable Subject Matter***

1. Claims 1-18 are allowed.
2. The following is an examiner's statement of reasons for allowance: Regarding claims 1-18, the prior art of record fails to teach of control plane logic including box management control logic isolated to the control processor and routing control logic distributed across the control processor and the service termination component. The closest reference, Michels et al. (U.S. Patent No. 6,453,358), teaches of a control processor, a service termination component, routing table management logic, a routing fabric, forwarding logic and a control interface, but fails to teach of control plane logic including box management control logic isolated to the control processor and routing control logic distributed across the control processor and the service termination component. Additionally, Alles et al. (U.S. Patent No. 6,769,025), teaches of routing fabric, service termination components, a control processor, control logic and a control interface but fails to teach of control plane logic including box management control logic isolated to the control processor and routing control logic distributed across the control processor and the service termination component. Furthermore, Berman (U.S. Patent No. 6,118,776, and U.S. Patent No. 6,470,007), both teach of a control processor, a control interface, a routing fabric, routing table management logic and routing control logic but fails to teach of forwarding plane logic and control plane logic including box management control logic isolated to the control processor and routing control logic distributed across the control processor and the service termination component. Furthermore, Muller et al. (U.S. Patent No. 6,061,362 and U.S. Patent No. 6,021,132

and U.S. Patent No. 6,816,467), each teach of forwarding logic, control logic, a control interface, a control processor, routing fabric and a service termination component but fails to teach of routing table management logic and control plane logic including box management control logic isolated to the control processor and routing control logic distributed across the control processor and the service termination component.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

**3. Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

(571) 273-8300, (for formal communications intended for entry)

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jamal A. Fox whose telephone number is (571) 272-3143. The examiner can normally be reached on Monday-Friday 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to 2600 Customer Service whose telephone number is (571) 272-2600.

A handwritten signature in black ink, appearing to read "Jamal A. Fox". The signature is fluid and cursive, with the first name "Jamal" being more prominent.

**Jamal A. Fox**

A handwritten signature in black ink, appearing to read "Wellington Chin". The signature is stylized and cursive, with the first name "Wellington" being more prominent.

**WELLINGTON CHIN  
ADVISORY PATENT EXAMINER**